

DERRICK LIN

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EDUCATION

University of California, San Diego Expected: June 2026
Bachelor of Science in Computer Engineering and Cognitive Science (Machine Learning & Neural Computation), GPA: 3.3
Relevant Courses: Object Oriented Programming, Data Structures and Algorithms, Operating Systems, Machine Learning, Quantum Computing | **Academic Awards:** Provost Honors (2x)

WORK EXPERIENCE

Qualcomm Institute **Jan 2024 - Present**
Software Engineering Intern La Jolla, CA

- Utilized **Revit** and **Unreal Engine** to model detailed and accurate digital twins of UCSD Campus
- Transformed UCSD Campus into a high-resolution digital twin using **drone-based 3D photogrammetry**

LearnWise AI **Oct 2023 - Dec 2023**
Software Engineering Intern Remote

- Developed and deployed **AWS Lambda** functions, resulting in faster response times for products like chatbots
- Used **Python** and **boto3** to initiate AWS batch jobs to sort and clean customer data, resulting in a **40% reduction** in manual work through automated data processing tasks

LEADERSHIP EXPERIENCE

Computer Science and Engineering Society (CSES) at UCSD **Sep 2023 - Present**
VP Events La Jolla, CA

- Organized and led **40+ yearly workshops and social events** held within CSES communities, reaching **2000+ students**
- Created technical workshops, projects, and events within CSES, providing career development support
- Fostered the development of **CSES's mentorship program** that exposed computer science to hundreds of underrepresented students

PROJECTS

Triton Delivery **Jun 2023 - Present**
Food Delivery App for UCSD Students

- Created an iOS app using **Swift** and **Firebase** for UCSD students, resulting in a **600% reduction** in food pickup times (30 min to 5 min)

A Breast Cancer Detector **Jun 2023 - August 2023**
Machine learning-based breast cancer detection system

- Developed a **Flask**-based web application for breast cancer detection, integrating a machine learning model trained on UCI's **open-source** datasets to predict tumor malignancy with a 95% accuracy rate

TECHNICAL SKILLS

Languages | Java, Python, JavaScript, Typescript, C, C++, Go, ARM Assembly, HTML, CSS, Swift, MATLAB
Technologies | React, Rest APIs, Node.js, Flask, FastAPI, PostgreSQL, Next.js, MongoDB, Express, Git, JUnit, Unreal Engine
Software | AWS, Google Cloud Platform, Heroku, Valgrind, Firebase, Postman